CSCI-1411 FUNDAMENTALS OF COMPUTING LAB

- □ Overview:
 - Loops
 - while ← pre-test or top test loop
 - do-while ← post-test or bottom test loop
 - for
 - Nested loops
 - Files
 - #include <fstream>
 - Input can come from files (ifstream data type)
 - Output can go to files (ofstream data type)
 - file_variable.open(file_name)
 - file_variable.close()

- □ Overview:
 - Lab 5 Components
 - Lab Sections (5.1, 5.2, 5.3, 5.4, 5.5, 5.6)
 - No design document for 5.6

- □ 5.1 Working with the while Loop
 - (while.cpp)
 - Answer questions asked in exercise 1, 3, 5, 6
- □ 5.2 Working with the do-while Loop
 - (dowhile.cpp)
 - Answer questions asked in exercise 2 & 3
- □ 5.3 Working with the for Loop
 - □ (for.cpp)
 - Answer questions asked in exercise 1 & 2
- □ 5.4 Nested Loops
 - Don't match the sample output Implement Exercise 2.
 - (nested.cpp)

- 5.5 Reading and Writing to a File
 - How to create transaction.dat from UNIX terminal?
 - Copy the file to the same directory as your billfile.cpp
 - Ex:

```
/myhome/csci1411/lab5/billfile.cpp
/myhome/csci1411/lab5/a.out
/myhome/csci1411/lab5/transaction.dat (must be same directory as a.out)
```

- Match the output displayed in Exercise 2 (read the values from the file).
- (billfile.cpp)
- □ 5.6 Programming Assignment
 - Choose 1 of the 3 options
 - Name the source file: main.cpp
 - No Design Document

- Submission File Checklist
 - Submit all files on Canvas (in a single zip file). Be sure to include all source files and documents.

- □ 5.1 while.cpp
- □ 5.2 dowhile.cpp
- □ 5.3 for.cpp
- □ 5.4 nested.cpp
- □ 5.5 billfile.cpp
- □ 5.6 main.cpp (For any option you choose)